

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-8-2

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

NEW HOLLAND U.K. LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 of the Health and Safety Code; and,

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following New Holland U.K. LTD. 1997 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Agricultural Tractor, Combine

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VNH7.5R6DARA	7.5 (456)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matter (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

<u>Exhaust Emissions (g/bhp-hp)</u>				<u>Smoke Opacity (%)</u>		
<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

<u>Exhaust Emissions (g/bhp-hr)</u>					<u>Smoke Opacity (%)</u>		
<u>Engine Family</u>	<u>THC</u>	<u>CO</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
VNH7.5R6DARA	0.4	0.7	6.0	0.2	6	8	13

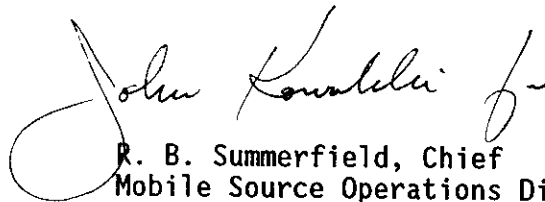
BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 19th day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

Manufacturer New Holland U.K. Ltd Engine Family VNH7.5R6DARA
Displacement: 7.480 / 456 Liters/Cubic Inches Eng Config: I-6/OHV
All Codes in Eng Fam: CA 49S 50SXX Cert Test Procedures: ARB EPA XX
Valves/Ports per Cylinder 2 valves/cyl Strokes per Combustion Cycle 4-stroke
Maximum Rated Power: 277 HP (207 KW) @ 2200 RPM
Ignition: Compression XX Compression with Glow Plug Spark
Fuel Type(s): Dedicated XX Flex-Fuel Dual-Fuel Diesel XX M100 M85
CNG LNG LPG Other (specify)
Diesel Cert Fuel: 40 CFR 86.1313-94 XX Other (specify)
Primary Service Equipment: Agricultural Tractor (VA,VB,VH,VT), Combine (VI,VM,VJ,VN,
Exhaust ECS (e.g., MFI, TC, CAC): EM,TC,CAC VP,VR)
(use abbreviations per SAE J1930 JUN93)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ ₃ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
675TA/VB	260 @ 2100	130	87800844/ 81876871	N/A	N/A	N/A
675TA/VH	196 @ 2100	105	87800862/ 87841116	N/A	N/A	N/A
675TA/VA	226 @ 2100	114	87800845/ 81876871	N/A	N/A	N/A
675TA/VL	277 @ 2200	137	87800860/ 87840446	N/A	N/A	N/A
675TA/VM	206 @ 2100	107.5	87800861/ 87841116	N/A	N/A	N/A
675TA/VT	176 @ 2100	94	87800972/ 87841116	N/A	N/A	N/A
675TA/VJ	226 @ 2100	111.5	87800876/ 87840446	N/A	N/A	N/A
675TA/VN	277 @ 2100	141.5	87801154/ 87840446	N/A	N/A	N/A
675TA/VP	261 @ 2100	129.5	87800882/ 87840446	N/A	N/A	N/A
675TA/VR	206 @ 2100	107.5	87800861/ 87841116	N/A	N/A	N/A

Date Issued:

Revisions: